Required Emergency Response Vehicle

1 Vehicle Identification Number (VIN) _____
2 Vehicle Type _____
3 Copy of Vehicle Registration _____
4 Length _____
5 Width _____
6 Empty Vehicle Weight _____
7 Gross Vehicle Weight _____
8 # Axles _____
9 Spacing of Axles (Width) _____
10 Spacing of Axles (Length) _____
11 Potential Crossing(s) _____

Bridges

0625-053-6122: East Church Road over Tributary of Muddy Branch
0630-053-6073: Unison Road over Dog Branch
0650-053-6041: Gleedsville Road over Sycoline Creek
0665-053-6287: Loyalty Road over Tributary of Catoctin Creek
0673-053-6051: Featherbed Road over Catoctin Creek
0693-053-6063: Ash George Road over Richards Creek
0719-053-6019: Greengarden Road over Panther Skin Creek
0719-053-6020: Greengarden Road over Jeffries Branch
0722-053-6450: Lincoln Road over Tributary of Crooked Run
0723-053-6186: Foundry Road over Tributary of Crooked Run
0727-053-6081: Forest Mills Road over Tributary of Crooked Run
0734-053-6088: Snickersville Road over Beaverdam Creek
0734-053-6090: Snickersville Road over North Fork of Beaverdam Creek
0735-053-6219: Black Oak Road over Tributary of Beaverdam Creek

APPENDIX B

CROSSING AUTHORIZATION SUMMARY SHEET

NAME OF APPLICANT _____

EMERGENCY RESPONSE VEHICLE CONFIGURATION

Empty Vehicle Weight (lbs) _____ Gross Vehicle Weight (lbs) _____

AXLE NUMBER	SPACING (feet)	EMPTY WEIGHT AXLE LOAD (lbs)	GROSS WEIGHT AXLE LOAD (lbs)
Axle 1			
Axle 2			
Axle 3			
Axle 4			
Axle 5			
Axle 6			
Axle 7			

LOCATION OF STRUCTURE

County _____
Route _____
Feature Crossed _____
Structure Number _____

Load Carrying Capacity (Virginia Legal Vehicle) _____ Tons
Posted Capacity (Virginia Legal Vehicle) _____ Tons
Authorized Capacity (Emergency Response Vehicle _____ Tons

ENDORSEMENT STATEMENT

I have reviewed all data submitted to me by the applicant and the Virginia Department of Transportation and have taken into account all items that will affect the ability of the stated structure to carry the indicated Emergency Response Vehicle. The indicated Emergency Response Vehicle can safely cross the indicated structure.

Signature of the Professional Engineer who completed the attached calculations _____

Date _____

Please attach all calculations

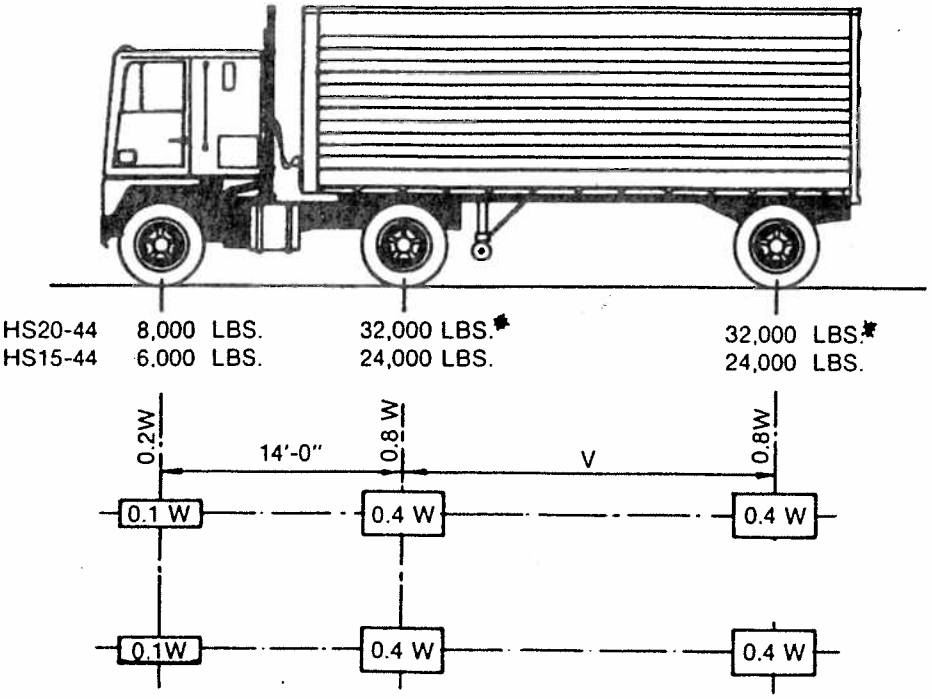
The below is to be filled out by a representative of the Virginia Department of Transportation.

Approved ____ Comments: _____

Denied ____

District Structure and Bridge Engineer _____

Date _____



W = COMBINED WEIGHT ON THE FIRST TWO AXLES WHICH IS THE SAME AS FOR THE CORRESPONDING H TRUCK.

V = VARIABLE SPACING — 14 FEET TO 30 FEET INCLUSIVE. SPACING TO BE USED IS THAT WHICH PRODUCES MAXIMUM STRESSES.

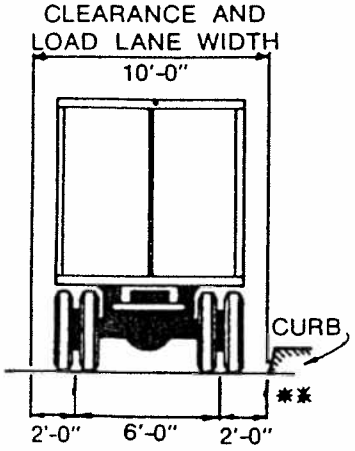


FIGURE 3.7.7A. Standard HS Trucks

*In the design of timber floors and orthotropic steel decks (excluding transverse beams) for H 20 loading, one axle load of 24,000 pounds or two axle loads of 16,000 pounds each, spaced 4 feet apart may be used, whichever produces the greater stress, instead of the 32,000-pound axle shown.

**For slab design, the center line of wheels shall be assumed to be 1 foot from face of curb. (See Article 3.24.2.)

VEHICLES FOR RATING AND ANALYSIS

HS20(at inventory and operating stress levels)

Axle No.	Weight (lbs.)	Distance to Next Axle(ft.)
1	8,000	14'
2	32,000	14'
3	32,000	

GVW = 36 Tons

center of gravity is 18.67' from axle no. 1, and 9.33' from axle no. 3

or a uniform load of 640#/l. f., plus a concentrated load of 18,000# for moment or a load of 26,000# for shear

Legal load--single unit truck

Axle No.	Weight (lbs.)	Distance to Next Axle(ft.)
1	20,000	20'
2	17,000	4'
3	17,000	

GVW = 27 Tons

center of gravity is 13.85' from axle no. 1, and 10.15' from axle no. 3

Legal load--truck and semi-trailer

Axle No.	Weight (lbs.)	Distance to Next Axle(ft.)
1	12,000	10'
2	17,000	4'
3	17,000	33'
4	17,000	4'
5	17,000	

GVW = 40 Tons

center of gravity is 25.93' from axle no. 1, and 25.08' from axle no. 5

90,000# Blanket Permit Vehicle(at operating stress level)

Axle No.	Weight (lbs.)	Distance to Next Axle(ft.)
1	12,500	8'
2	22,000	4'
3	22,000	28'
4	16,750	4'
5	16,750	

GVW = 45 Tons

center of gravity is 20.52' from axle no. 1, and 23.48' from axle no. 5

115,000# Blanket Permit Vehicle(at operating stress level)

Axle No.	Weight (lbs.)	Distance to Next Axle(ft.)
1	12,000	8'
2	17,833	4'
3	17,833	4'
4	17,833	40'
5	16,500	4'
6	16,500	4'
7	16,500	

GVW = 57.5 Tons

center of gravity is 31.41' from axle no. 1, and 32.59' from axle no. 7

06/17/93 WFD